

ABSTRACT

Novel silica particles having bondable functional groups on the surface thereof and containing a fluorescent rare-earth complex characterized by being uninfluenced by the surrounding environment including a buffer and a substance to be labeled. The silica particles containing a fluorescent rare-earth complex specifically are ones which comprise silica particles containing a fluorescent rare-earth complex selectively in an inner layer thereof and the surface of which consists substantially of silica. Also provided are: a fluorescent labeling agent comprising the silica particles; a method of fluorescent labeling which comprises using the silica particles as a labeling agent; and a method for fluorescent determination and a reagent for fluorescent determination which employ the fluorescent labeling agent.